ST-S530ES

SERVICE MANUAL

UK Model
West Germany Model
Italian Model

Photo: UK model

SPECIFICATIONS

Circuit System	FM stereo, FM/AM super-heterodyne tuner PLL quartz-locked digital synthesizer system
Power requirements	West Germany, Italian model: 220V AC UK model: 240V 50/60Hz
Power consumption	10 watts
Dimension	Approx. 430 x 85 x 365 mm (w/h/d) (17 x $3^{3}/_{8}$ x $14^{3}/_{8}$ inches)
Weight	Approx. 3.9 kg (8 lb 10 oz)
Accessories Supplied	Connecting Cord (1) FM ribbon antenna (1) AM loop antenna (1) Antenna connector (1)

FM tuner

Tuning range		87.5–108 MHz
Intermediate frequency		10.7 MHz
Sensitivity at 46 dB quieting		16.8 dBf, 1.8 µV (mono) 38.5 dBf, 23 µV (stereo)
Usable sensitivity		11.2 dBf, 1.0 V (IHF)
Signal-to-noise ratio	at 75 kHz deviation (Canadian model)	85 dB (mono) 82 dB (stereo)
	at 40 kHz deviation (Models for other countries)	80 dB (mono) 76 dB (stereo)
Harmonic distortion		0.035% (mono) 0.045% (stereo)
Separation at 1 kHz		60 dB
Selectivity	at 400 kHz	80 dB
	at 300 kHz	65 dB

AM tuner

Tuning range			MW: 522–1,611 kHz (9 kHz step) LW: 153–279 kHz (1kHz step)
Intermediate frequency			450 kHz
Usable sensitivity	MW	AM loop antenna	250 µV/m
		External antenna	30 µV/m
	LW	AM loop antenna	700 µV/m
		External antenna	200 µV/m
Signal-to-noise ratio			50 dB
Harmonic distortion			0.3%
Selectivity			at 9 kHz: 50 dB

FM STEREO/FM-AM TUNER

SONY®

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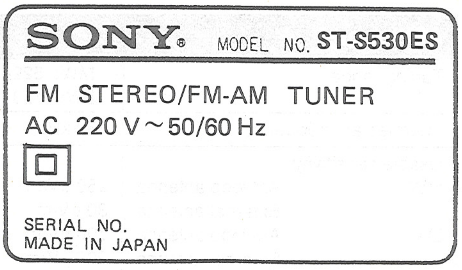
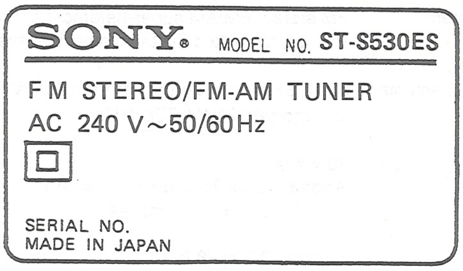
–MODEL IDENTIFICATIONS–

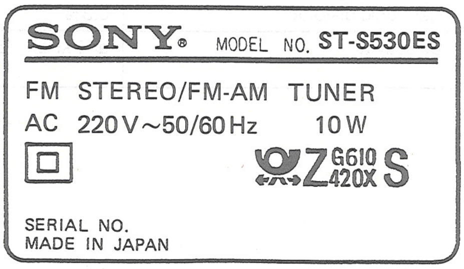
Italian Model


SONY
MODEL NO. ST-S530ES
FM STEREO/FM-AM TUNER
AC 220 V ~ 50/60 Hz
SERIAL NO.
MADE IN JAPAN

UK Model


SONY
MODEL NO. ST-S530ES
FM STEREO/FM-AM TUNER
AC 240 V ~ 50/60 Hz
SERIAL NO.
MADE IN JAPAN

West Germany Model

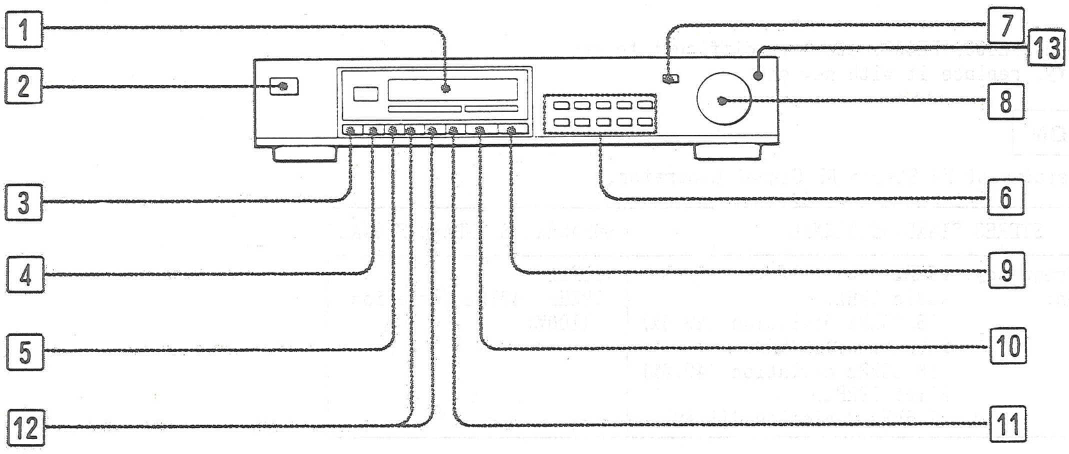

SONY
MODEL NO. ST-S530ES
FM STEREO/FM-AM TUNER
AC 220 V ~ 50/60 Hz
10 W
Z G610 420X
S
SERIAL NO.
MADE IN JAPAN

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

LOCATION OF CONTROLS



- 1 Display window
- 2 POWER switch
- 3 CAL TONE (calibrating tone) button
  Press this button to obtain a 400 Hz, 50% modulated signal for adjusting the recording level on a cassette deck. The indicator lights when a 400 Hz calibrating tone signal is provided. To deactivate the calibrating tone circuit, press the button again.
- 4 TUNE MODE (tuning mode) button
- 5 MUTING button
- 6 PRESET buttons and indicators
- 7 PRESET/TUNING button
- 8 TUNING knob
- 9 SHIFT button
- 10 MEMORY button
- 11 Band selector
  FM/MW/LW
- 12 FM MODE button
  HI-BLEND button
    HI-BLEND: Select this position when the high-frequency sound is noisy in the FM band. The high-frequency noise will be reduced, but this lowers the stereo effect.
    MONO: Select this position when you tune in a very weak or noisy FM station. Although this eliminates the stereo effect, the noise will be greatly reduced.
- 13 ANT ATT switch (West Germany, Italian model)

SECTION 2
ADJUSTMENTS

- Refer to Adjustnment Location on page 6.

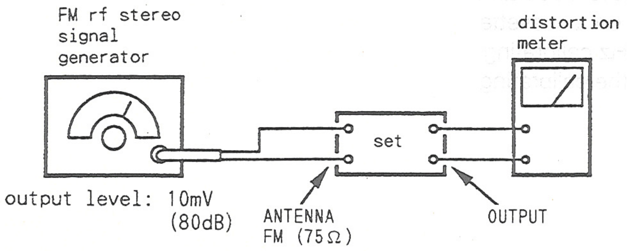
Note:
As a front-end (FE150, FE401, etc.) is difficult to repair if faulty, replace it with new one.

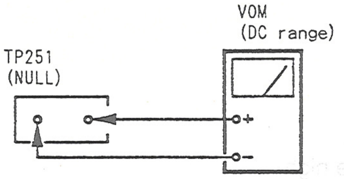
FM SECTION

- Standard Setting of FM Stereo RF Signal Generator.

STEREO STANDARD SIGNAL		MONAURAL STANDARD SIGNAL
Carrier frequency:	98MHz	98MHz
Moduration:	Audio 1kHz, 16.25kHz deviation (40.6%) Sub-channel 38kHz, 16.25kHz deviation (40.6%) Pilot 19kHz, 7.5kHz deviation (18.8%)	1kHHz, 40kHz deviation (100%)

FM Discriminator Alignment (NULL and MONO Distortion)

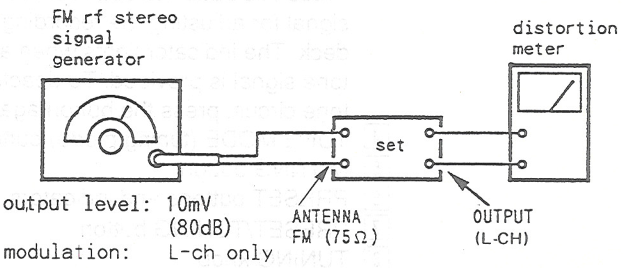

FM rf stereo signal generator
distortion meter
set
output level: 10mV (80dB)
ANTENNA FM (75Ω)
OUTPUT


VOM (DC range)
TP251 (NULL)
+
−

Procedure:
1. Tune the set to 98MHz.
2. Adjust IFT251 for 0V reading on the VOM. ······· NULL
3. Adjust IFT252 for a minimum reading on the distortion meter. ····························· MONO Distortion
4. Repeat the alignments of 2. and 3. several times.

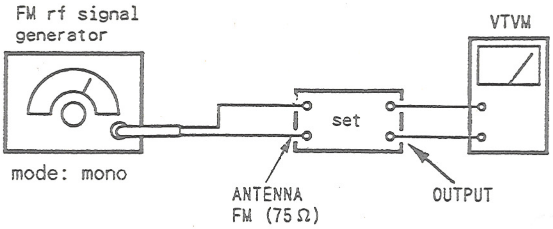
Note: When replacing the ceramic filter, perform this alignment.

FM Stereo THD Adjustment


FM rf stereo signal generator
distortion meter
set
output level: 10mV (80dB)
modulation: L-ch only
ANTENNA FM (75Ω)
OUTPUT (L-CH)

Procedure:
1. Tune the set to 98MHz.
2. Adjust T1 in FE150 for a minimum reading on the distortion meter.

FM Muting Level Adjustment

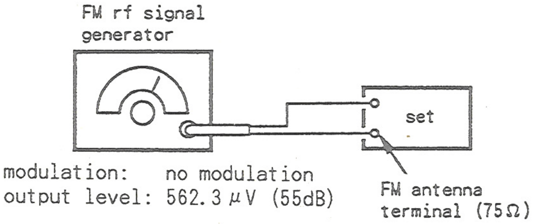


FM rf signal generator
VTVM
set
mode: mono
ANTENNA FM (75Ω)
OUTPUT

Procedure:

1. Tune the set to 98MHz.
2. Set SSG output level to 17.8 μV (25dB).
3. Adjust RV253 so that the reading on VTVM becomes within 14.1μV (23dB)—22.4μV (27dB).

FM Signal Meter Adjustment

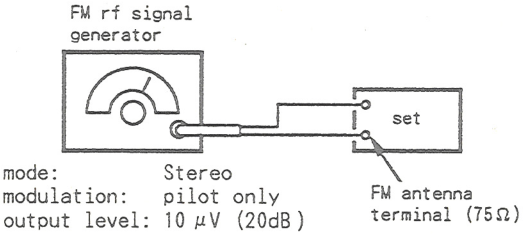


FM rf signal generator
set
modulation: no modulation
output level: 562.3 μV (55dB)
FM antenna terminal (75Ω)

Procedure:

1. Tune the set to 98MHz.
2. Adjust RV251 to the place where level 5 in the signal strength indicator turns from dark to light.

FM Stereo Indication Lighting Level Adjustment

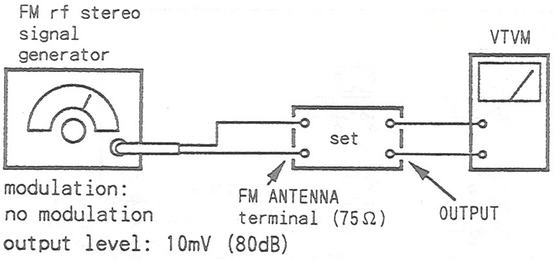


FM rf signal generator
set
mode: Stereo
modulation: pilot only
output level: 10 μV (20dB)
FM antenna terminal (75Ω)

Procedure:

1. Tune the set to 98MHz.
2. Adjust RV252 to the place where STEREO indication lights.

Pilot Cancel Adjustment

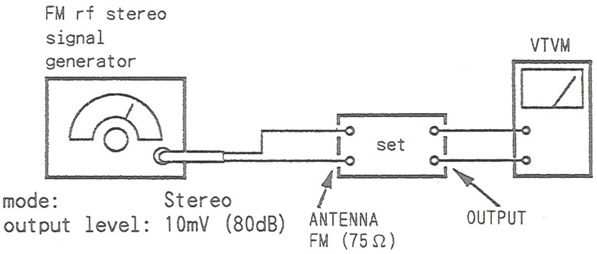


FM rf stereo signal generator
VTVM
set
modulation: no modulation
output level: 10mV (80dB)
FM ANTENNA terminal (75Ω)
OUTPUT

Procedure:

1. Tune the set to 98MHz.
2. Adjust RV303 for such a minimum reading on VTVM that the levels of L-ch and R-ch are equal.

FM Stereo Separation Adjustment



FM rf stereo signal generator
VTVM
set
mode: Stereo
output level: 10mV (80dB)
ANTENNA FM (75Ω)
OUTPUT

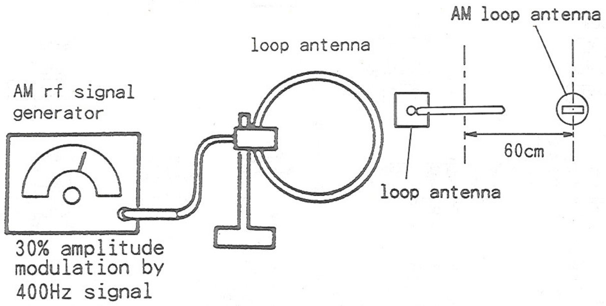
Procedure:

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RV301 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RV302 for minimum reading.

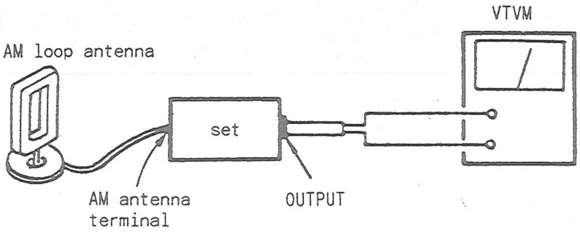
L-CH Stereo separation: Ⓐ - Ⓑ
R-CH Stereo separation: Ⓒ - Ⓓ

The separation of both channels should be equal.

AM SECTION


AM loop antenna
loop antenna
AM rf signal generator
60cm
loop antenna
30% amplitude modulation by 400Hz signal

Carrier frequency: 216kHz (LW Band)


VTVM
AM loop antenna
set
AM antenna terminal
OUTPUT

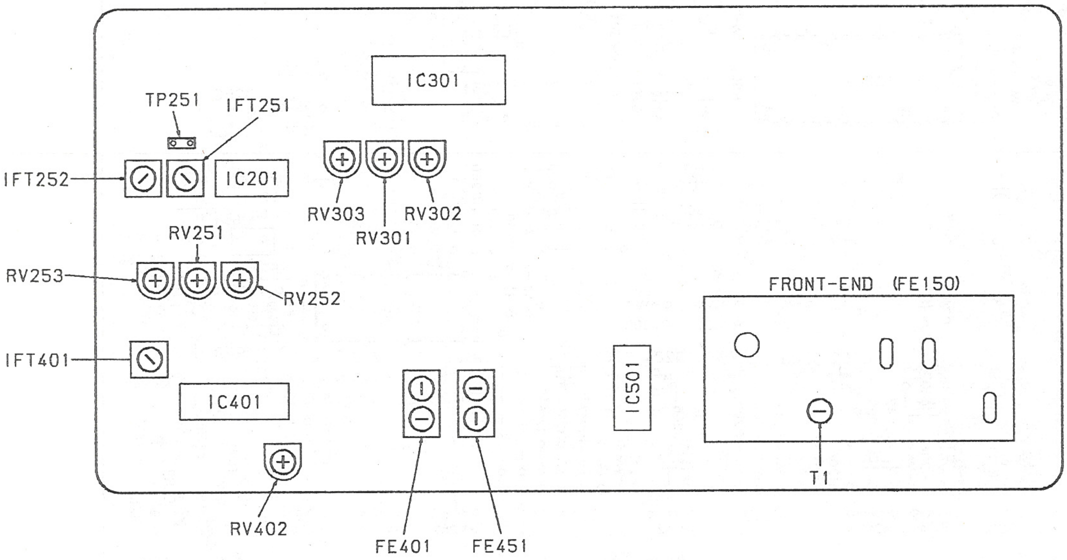
dB μ/m=(SSG output level)-26dB

AM Meter Level Adjustment

Procedure:

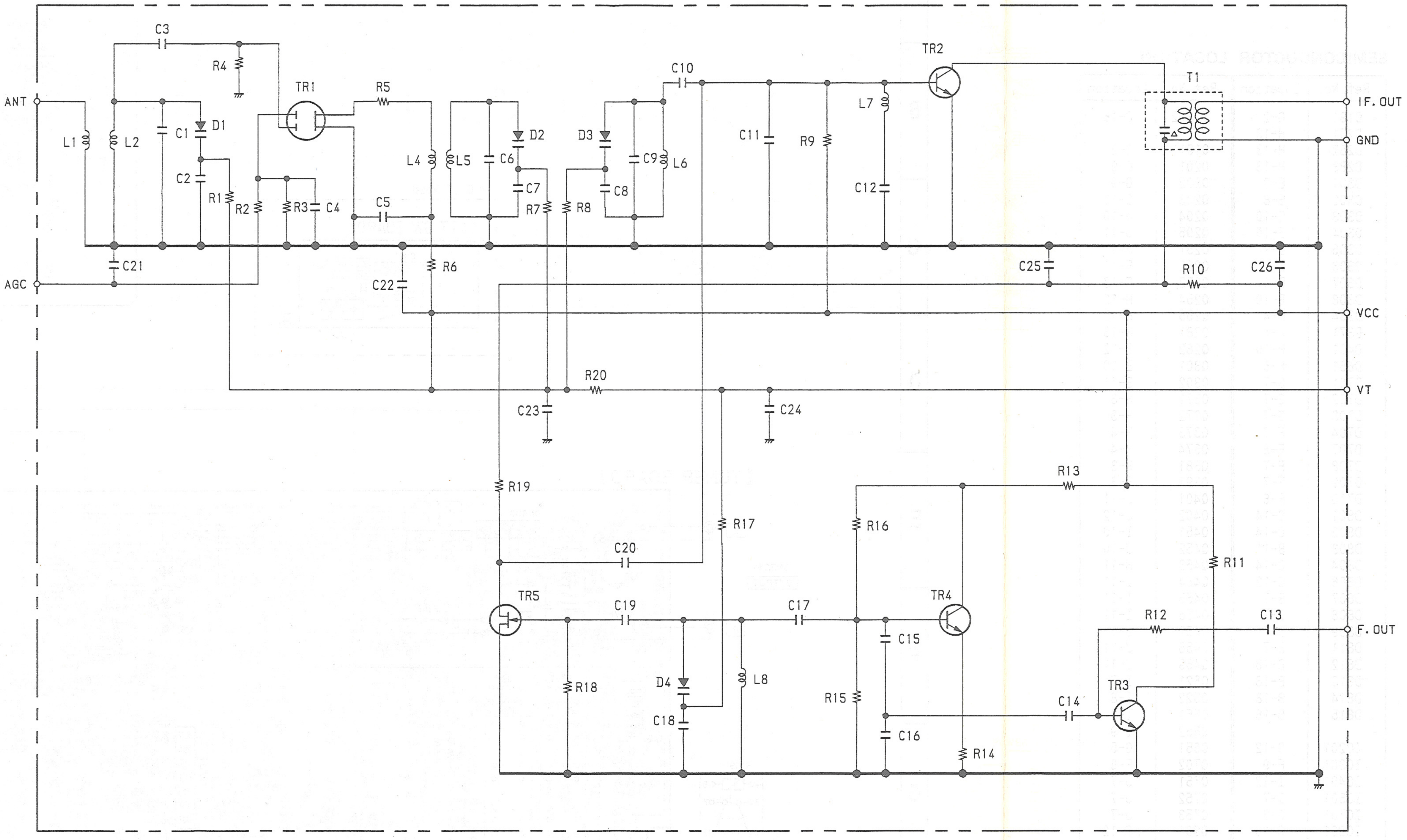
1. Set SSG output level so that antenna input level of the set becomes 5.0mV (74dB).
2. Adjust RV402 to the place where level 5 in the signal strength indicator turns from dark to light.

Adjustment Location: Main Board


IC301
TP251
IFT251
IFT252
IC201
RV303
RV302
RV301
RV251
RV253
RV252
IFT401
IC401
IC501
FRONT-END (FE150)
T1
RV402
FE401
FE451

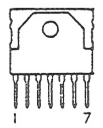
SECTION 3
DIAGRAMS

3-1. FM FRONT END (FE150)

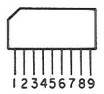

ANT
AGC
C3
R4
TR1
R5
L1
L2
C1
D1
C2
R1
R2
R3
C4
C5
L4
L5
C6
D2
C7
R7
D3
R8
C8
C9
L6
C10
C11
R9
TR2
L7
C12
T1
IF. OUT
GND
C21
R6
C22
C25
R10
C26
VCC
R20
C23
C24
VT
R19
R17
R16
R13
R11
C20
TR5
C19
C17
TR4
C15
R12
C13
F. OUT
R18
D4
C18
L8
R15
C16
C14
TR3
R14

3-2. SEMICONDUCTOR LEAD LAYOUTS

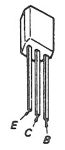
LA5667



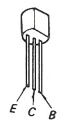
LB1493



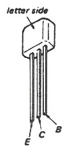
DTC144ES
2SC2669
2SC634SP-48



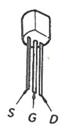
2SA733-K
2SC3622-L



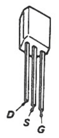
2SC2785


letter side
E C B

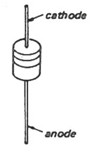
2SK30A-GR3
2SK246-GR2



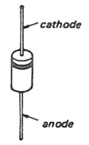
2SK161-GR



HZS9B


cathode
anode

RD24E-L2
US1060M
10E2N


cathode
anode

3-3. PRINTED WIRING BOARDS

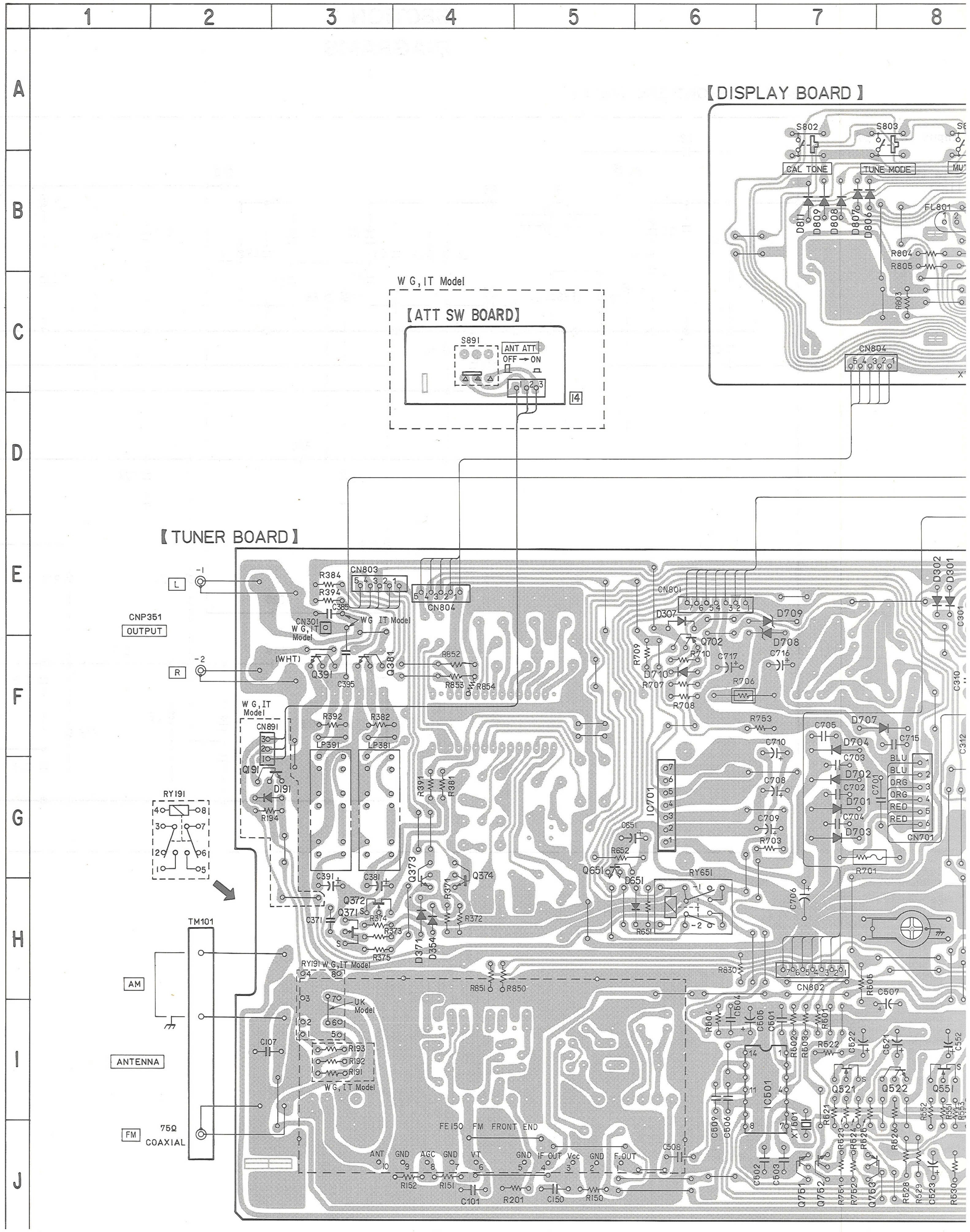
SEMICONDUCTOR LOCATION

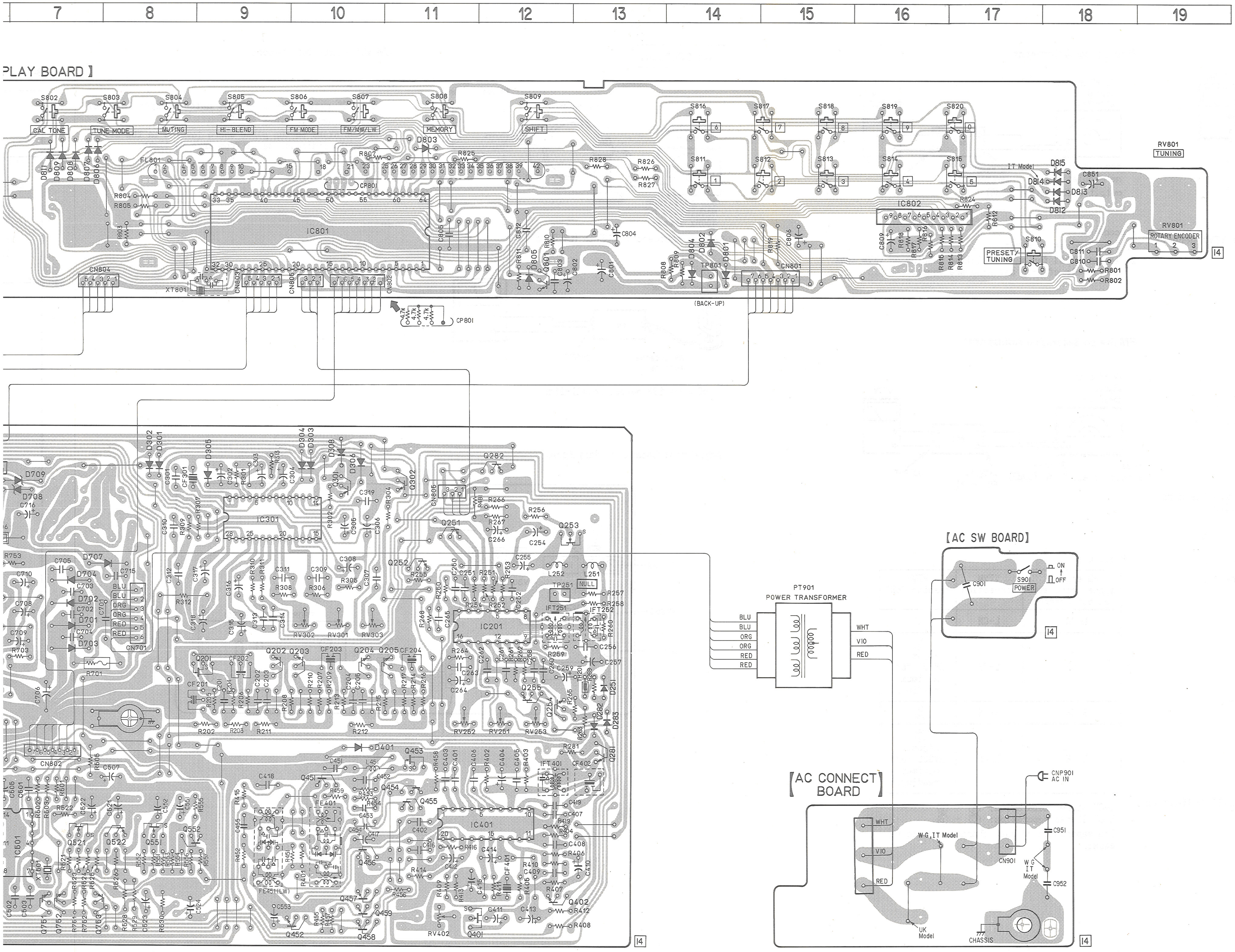
Ref. No.	Location	Ref. No.	Location
D191	G-2	IC802	C-16
D251	H-13		
D282	H-13	Q191	G-2
D283	H-13	Q201	G-9
D301	E-8	Q202	G-9
D302	E-8	Q203	G-10
D303	E-10	Q204	G-10
D304	E-10	Q205	G-11
D305	E-9	Q251	F-11
D306	E-10	Q252	F-11
D307	E-6	Q253	F-13
D308	E-10	Q254	H-12
D354	H-4	Q255	H-12
D371	H-4	Q281	H-13
D401	H-10	Q282	E-12
D651	H-5	Q301	E-10
D701	G-7	Q302	E-11
D702	G-7	Q371	H-3
D703	G-7	Q372	H-3
D704	F-7	Q373	H-4
D707	F-8	Q374	H-4
D708	F-7	Q381	F-3
D709	F-7	Q391	F-3
D710	F-6	Q401	J-11
D801	C-14	Q402	J-12
D802	C-14	Q451	I-10
D803	B-11	Q452	J-10
D804	C-14	Q453	H-11
D806	C-12	Q454	I-11
D807	B-7	Q455	I-11
D808	B-7	Q456	I-11
D809	B-7	Q457	J-11
D811	B-7	Q458	J-11
D812	B-18	Q459	J-11
D813	B-18	Q521	I-7
D814	B-18	Q522	I-8
D815	B-18	Q551	I-8
		Q552	I-9
IC201	G-12	Q651	G-5
IC301	F-9	Q702	F-6
IC401	I-12	Q751	J-7
IC501	I-7	Q752	J-7
IC701	G-6	Q753	J-7
IC801	C-10	Q801	C-12

- o—— : parts extracted from the component side.
- [ ]⊸ : indicates side identified with part number.
- abbreviation

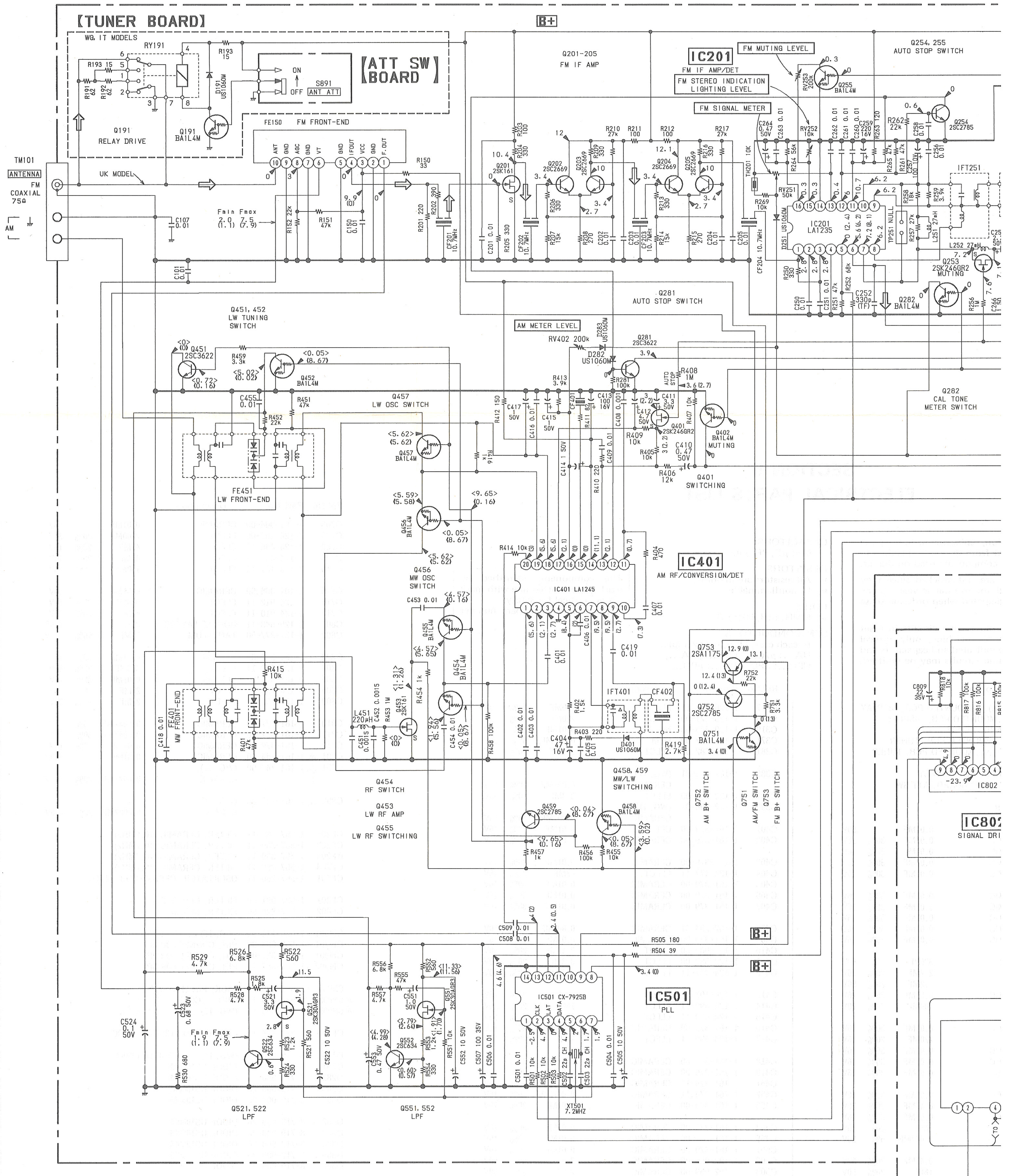
  WG: West Germany

  IT: Italian


1
2
3
4
5
6
7
8
A
B
C
D
E
F
G
H
I
J
【DISPLAY BOARD】
S802
S803
CAL TONE
TUNE MODE
D811
D809
D808
D807
D806
FL801
R804
R805
R803
CN804
W G, IT Model
【ATT SW BOARD】
S891
ANT ATT
OFF → ON
14
【TUNER BOARD】
L
R
CNP351
OUTPUT
-1
-2
R384
R394
CN803
CN804
C385
CN301
W G, IT Model
WG IT Model
(WHT)
Q391
Q381
C395
R852
R853
R854
CN801
D307
D709
D708
Q702
R710
C717
C716
R709
D710
R707
R706
R708
D302
D301
C301
C310
W G, IT Model
CN891
Q191
D191
R194
R392
LP391
R382
LP381
R391
R381
R753
C705
D707
D704
C715
C703
C710
D702
C702
D701
C704
D703
C708
C709
R703
BLU
ORG
RED
CN701
IC701
C651
R652
Q651
D651
RY651
R651
C391
C381
Q373
Q374
Q372
Q371
C371
R374
R373
R371
R372
R375
D371
D354
R701
C706
C312
RY191
TM101
AM
ANTENNA
FM
75Ω
COAXIAL
RY191 W G, IT Model
UK Model
C107
R193
R192
R191
W G, IT Model
R851
R850
R830
CN802
R606
C507
R604
C504
C506
C501
R602
R601
R522
Q521
Q522
Q551
IC501
C509
C505
X501
R621
C502
C503
Q751
Q752
Q753
R751
R528
R529
R530
FE150 FM FRONT END
ANT
GND
AGC
VT
IF OUT
Vcc
F.OUT
C508
R152
R151
C101
R201
C150
R150

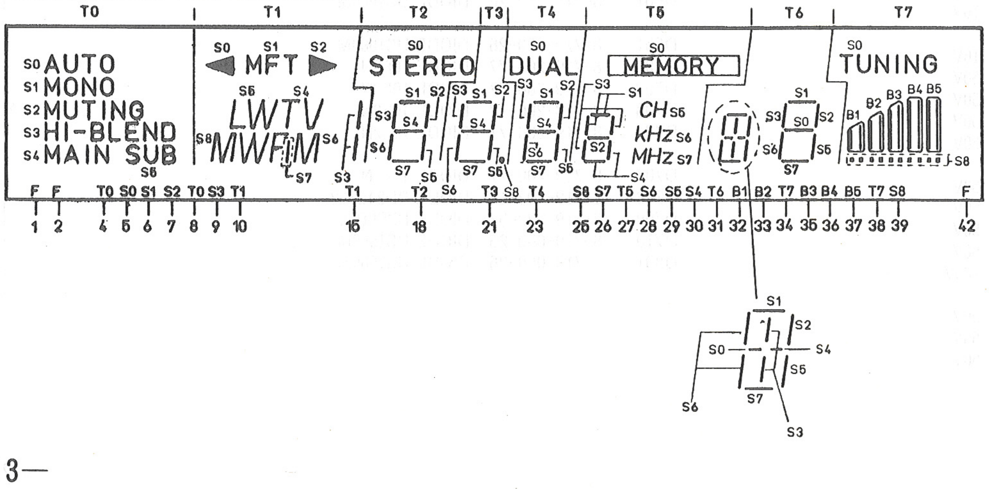

7
8
9
10
11
12
13
14
15
16
17
18
19
PLAY BOARD]
CAL TONE
TUNE MODE
MUTING
HI-BLEND
FM MODE
FM/MW/LW
MEMORY
SHIFT
RV801
TUNING
IC801
IC802
FL801
CP801
CN804
CN803
CN805
CN802
CN801
XT801
TP801
(BACK-UP)
IT Model
RV801
ROTARY ENCODER
PRESET/ TUNING
S810
IC301
IC201
IC401
IC501
CN701
CN802
CN805
TP251
NULL
IFT251
IFT252
IFT401
FE401
FE451(LW)
RV301
RV302
RV303
RV251
RV252
RV253
RV402
PT901
POWER TRANSFORMER
BLU
BLU
ORG
ORG
RED
RED
WHT
VIO
RED
[AC SW BOARD]
C901
S901
POWER
ON
OFF
[AC CONNECT BOARD]
CNP901
AC IN
WHT
VIO
RED
W.G, IT Model
CN901
C951
C952
W.G IT Model
UK Model
CHASSIS
14

3-4. SCHEMATIC DIAGRAM

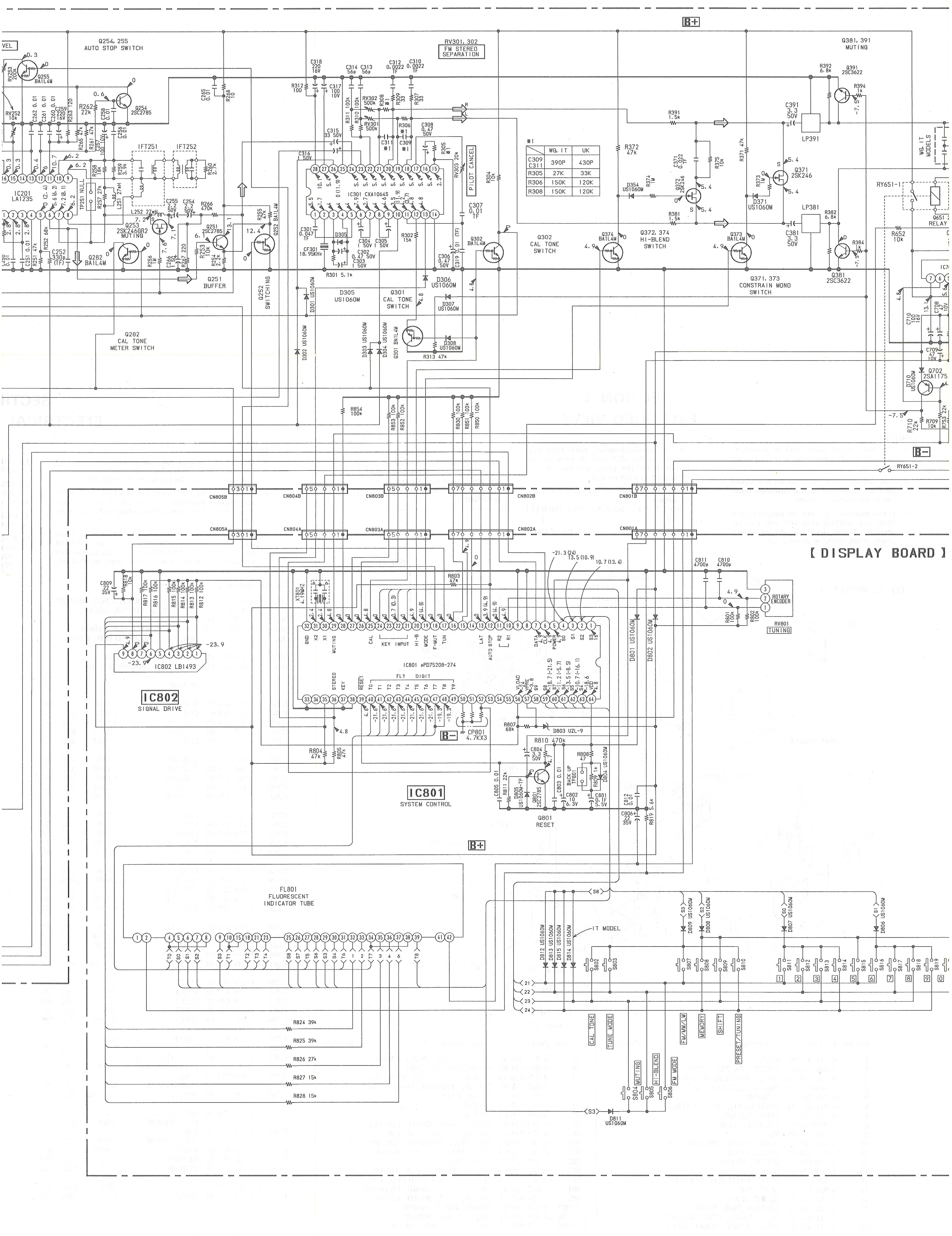


【TUNER BOARD】
WG, IT MODELS
RY191
Q191
RELAY DRIVE
Q191
BA1L4M
D191
US1060M
【ATT SW BOARD】
S891
ANT ATT
ON
OFF
B+
TM101
ANTENNA
FM
COAXIAL
75Ω
AM
UK MODEL
FE150 FM FRONT-END
C107 0.01
C101 0.01
Fmin Fmax
2.0 7.5
(1.1) (7.9)
R152 22k
R151 47k
C150 0.01
R150 33
Q201-205
FM IF AMP
Q201 2SK161
Q202 2SC2669
Q203 2SC2669
Q204 2SC2669
Q205 2SC2669
CF201 10.7MHz
CF202 10.7MHz
CF203 10.7MHz
CF204 10.7MHz
IC201
FM IF AMP/DET
FM MUTING LEVEL
FM STEREO INDICATION LIGHTING LEVEL
FM SIGNAL METER
IC201 LA1235
Q254, 255
AUTO STOP SWITCH
Q255 BA1L4M
Q254 2SC2785
IFT251
TP251 NULL
L251 27μH
L252 27μH
Q253 2SK246GR2 MUTING
Q282 BA1L4M
Q281
AUTO STOP SWITCH
Q281 2SC3622
D282 US1060M
D283 US1060M
Q282
CAL TONE
METER SWITCH
AM METER LEVEL
RV402 200k
Q451, 452
LW TUNING
SWITCH
Q451 2SC3622
Q452 BA1L4M
Q457
LW OSC SWITCH
Q457 BA1L4M
FE451
LW FRONT-END
Q456 BA1L4M
Q456
MW OSC
SWITCH
Q455 BA1L4M
Q454 BA1L4M
Q453 2SK161
L451 220μH
FE401
MW FRONT-END
Q454
RF SWITCH
Q453
LW RF AMP
Q455
LW RF SWITCHING
Q401 2SK246GR2
Q402 BA1L4M MUTING
Q401
SWITCHING
IC401
AM RF/CONVERSION/DET
IC401 LA1245
IFT401
CF402
D401 US1060M
Q753 2SA1175
Q752 2SC2785
Q751 BA1L4M
Q752
AM B+ SWITCH
Q751
AM/FM SWITCH
Q753
FM B+ SWITCH
Q458, 459
MW/LW
SWITCHING
Q459 2SC2785
Q458 BA1L4M
IC501
PLL
IC501 CX-7925B
XT501 7.2MHz
R505 180
R504 39
Q521, 522
LPF
Q521 2SK30AGR3
Q522 2SC634
Q551, 552
LPF
Q551 2SK30AGR3
Q552 2SC634
Fmin Fmax
1.9 7.5
(1.1) (7.9)
C524 0.1 50V
IC802
SIGNAL DRI

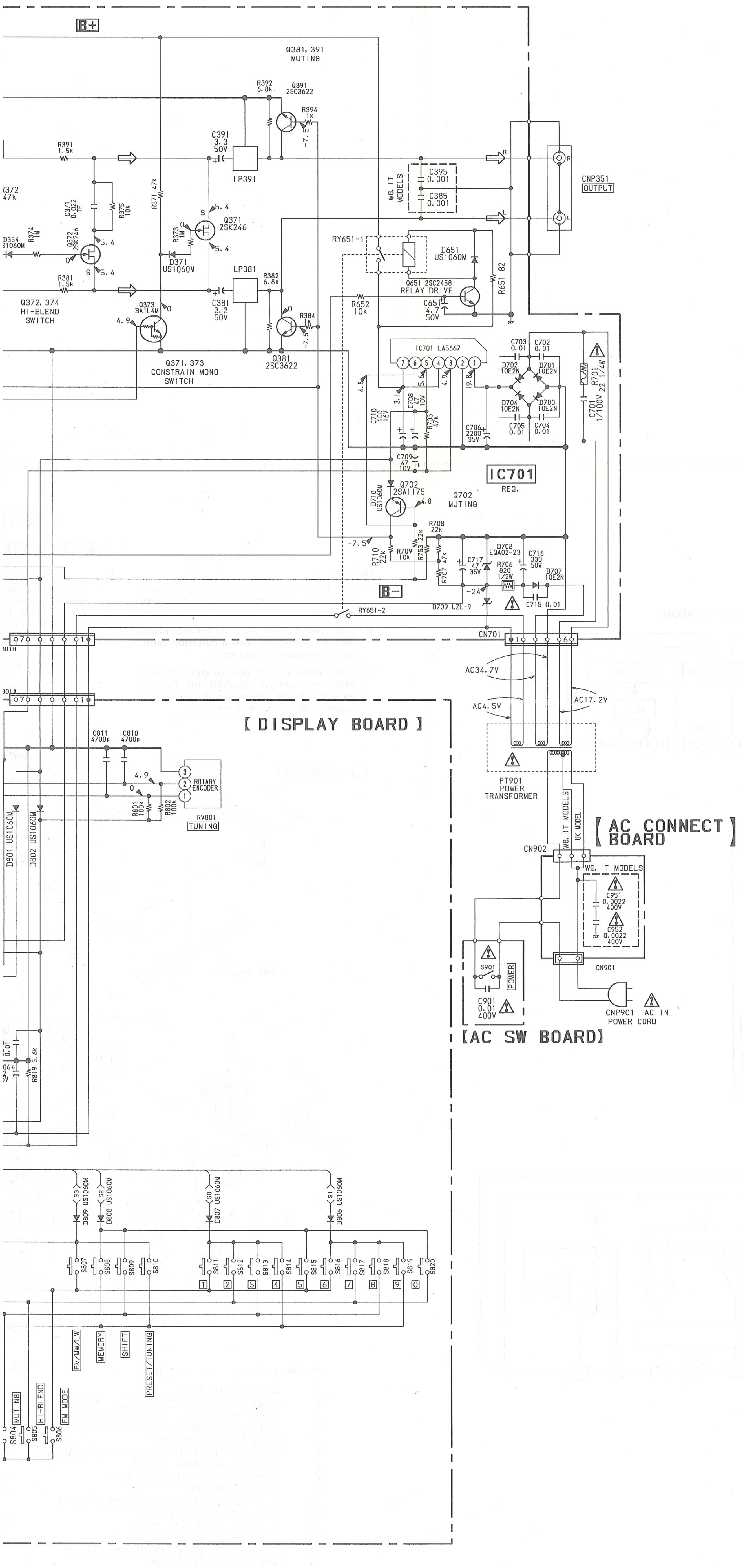
FL801 INDICATOR TUBE FLUORESCENT



T0
T1
T2
T3
T4
T5
T6
T7
AUTO
MONO
MUTING
HI-BLEND
MAIN SUB
MFT
LWTV
MWFM
STEREO
DUAL
MEMORY
TUNING
CH
kHz
MHz
S0
S1
S2
S3
S4
S5
S6
S7
S8
B1
B2
B3
B4
B5
F F T0 S0 S1 S2 T0 S3 T1 T1 T2 T3 S8 T4 S8 S7 T6 S6 S5 S4 T6 B1 B2 T7 B3 B4 B5 T7 S8 F
1 2 4 5 6 7 8 9 10 16 18 21 23 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 42


B+
Q254, 255
AUTO STOP SWITCH
RV301, 302
FM STEREO SEPARATION
Q381, 391
MUTING
IC201
LA1235
IFT251
IFT252
Q253
2SK246GR2
MUTING
Q282
BA1L4M
Q251
BUFFER
Q252
SWITCHING
Q282
CAL TONE
METER SWITCH
IC301 CXA1064S
CF301
18.95KHz
PILOT CANCEL
D305
US1060M
Q301
CAL TONE
SWITCH
Q302
CAL TONE
SWITCH
Q372, 374
HI-BLEND
SWITCH
Q371, 373
CONSTRAIN MONO
SWITCH
LP391
LP381
RY651-1
RELAY
WG, IT MODELS
Q702
2SA1175
B−
RY651-2
CN805B
CN804B
CN803B
CN802B
CN801B
CN805A
CN804A
CN803A
CN802A
CN801A
[DISPLAY BOARD]
IC802 LB1493
IC802
SIGNAL DRIVE
XT801
4.19MHz
IC801 μPD75208-274
IC801
SYSTEM CONTROL
ROTARY ENCODER
RV801
TUNING
CP801
4.7KX3
D803 UZL-9
Q801
RESET
BACK UP
FL801
FLUORESCENT
INDICATOR TUBE
IT MODEL
CAL TONE
TUNE MODE
FM/MW/LW
MEMORY
SHIFT
PRESET/TUNING
MUTING
HI-BLEND
FM MODE
D811
US1060M
R824 39k
R825 39k
R826 27k
R827 15k
R828 15k

※1	WG, IT	UK
C309 C311	390P	430P
R305	27K	33K
R306	150K	120K
R308	150K	120K

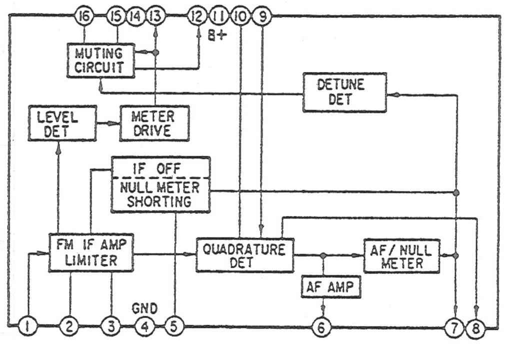

18
19
20
21
22
23
24
25
26
27
28
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
B+
Q381, 391
MUTING
R392
6.8k
Q391
2SC3622
R394
1k
-7.5
R391
1.5k
C391
3.3
50V
LP391
R372
47k
C371
0.022
TF
R375
10k
R371 47k
S
5.4
Q371
2SK246
D354
S1060M
R374
1M
Q372
2SK246
0
5.4
R373
1M
D371
US1060M
R381
1.5k
LP381
R382
6.8k
Q372, 374
HI-BLEND
SWITCH
Q373
BA1L4M
4.9
C381
3.3
50V
R384
1k
Q381
2SC3622
Q371, 373
CONSTRAIN MONO
SWITCH
WG. IT
MODELS
C395
0.001
C385
0.001
R
L
CNP351
OUTPUT
RY651-1
D651
US1060M
R651 82
Q651 2SC2458
RELAY DRIVE
R652
10k
C651
4.7
50V
IC701 LA5667
C703
0.01
C702
0.01
D702
10E2N
D701
10E2N
D704
10E2N
D703
10E2N
C705
0.01
C704
0.01
R701
22 1/4W
C701
1/100V
4.8
13.1
5.6
4.9
19.8
C710
100
16V
C708
47
10V
R703
47k
C706
2200
35V
C709
47
10V
IC701
REG.
D710
US1060M
Q702
2SA1175
Q702
MUTING
R708
22k
-7.5
R710
22k
R709
10k
R753
22k
R707
47k
C717
47
35V
D708
EQA02-23
R706
820
1/2W
C716
330
50V
D707
10E2N
B−
-24
D709 UZL-9
C715 0.01
RY651-2
CN701
801B
801A
AC34.7V
AC4.5V
AC17.2V
[DISPLAY BOARD]
C811
4700p
C810
4700p
ROTARY
ENCODER
R801
100k
R802
100k
RV801
TUNING
D801 US1060M
D802 US1060M
R819 5.6k
PT901
POWER
TRANSFORMER
WG. IT MODELS
UK MODEL
[AC CONNECT BOARD]
CN902
WG. IT MODELS
C951
0.0022
400V
C952
0.0022
400V
CN901
S901
POWER
C901
0.01
400V
CNP901 AC IN
POWER CORD
[AC SW BOARD]
S3
S2
S0
S1
D809 US1060M
D808 US1060M
D807 US1060M
D806 US1060M
S807
S808
S809
S810
S811
S812
S813
S814
S815
S816
S817
S818
S819
S820
1
2
3
4
5
6
7
8
9
0
FM/MW/LW
MEMORY
SHIFT
PRESET/TUNING
MUTING
HI-BLEND
FM MODE
S804
S805
S806

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.
- ▭ : nonflammable resistor.
- ▭ : fusible resistor.
- B + : B +LINE
- B − : B −LINE
- ☐ : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no signal (detuned) conditions.
  no mark: FN
  ( ) : AM
  < >: LW
  《 》: MW
- Voltages are taken with a VOM.
  (Input impedance 10MΩ)
  Voltage variations may be noted due to normal production torerances.
- Signal path.
  ⇨ : FM
- abbreviation
  WG: West Germany
  IT: Italian

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

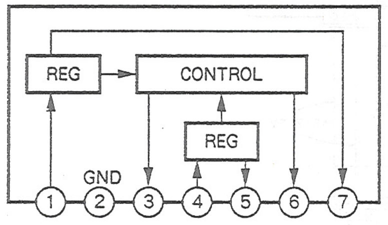
3-5. IC BLOCK DIAGRAM

IC201 LA1235



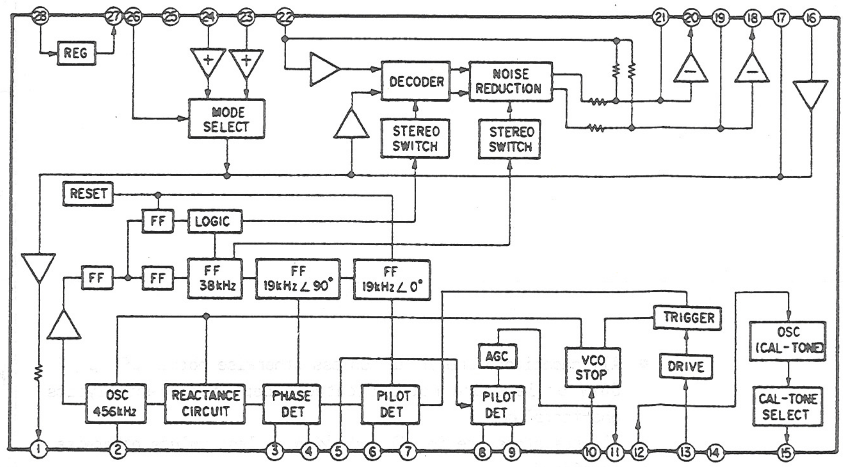
MUTING CIRCUIT
B+
DETUNE DET
LEVEL DET
METER DRIVE
IF OFF
NULL METER SHORTING
FM IF AMP LIMITER
QUADRATURE DET
AF/NULL METER
AF AMP
GND

IC701 LA5667



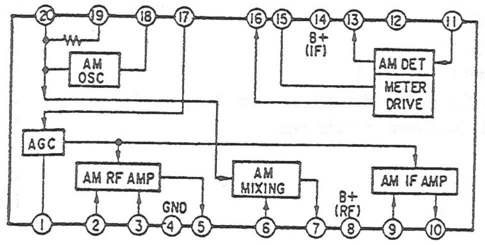
REG
CONTROL
REG
GND

IC301 CXA1064S



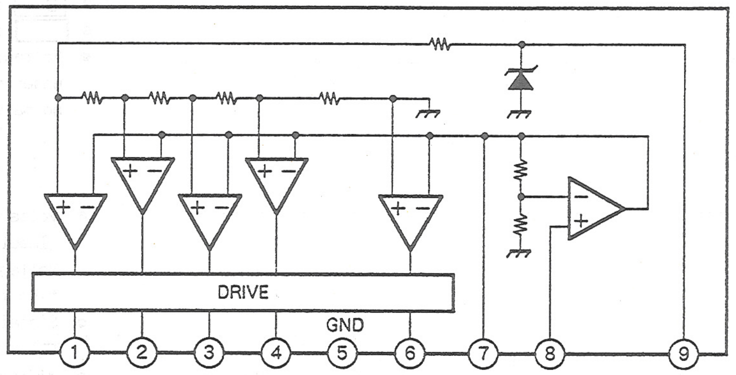
REG
MODE SELECT
DECODER
NOISE REDUCTION
STEREO SWITCH
STEREO SWITCH
RESET
FF
LOGIC
FF
FF
FF 38kHz
FF 19kHz∠90°
FF 19kHz∠0°
TRIGGER
OSC (CAL-TONE)
AGC
VCO STOP
DRIVE
OSC 456kHz
REACTANCE CIRCUIT
PHASE DET
PILOT DET
PILOT DET
CAL-TONE SELECT

IC401 LA1245

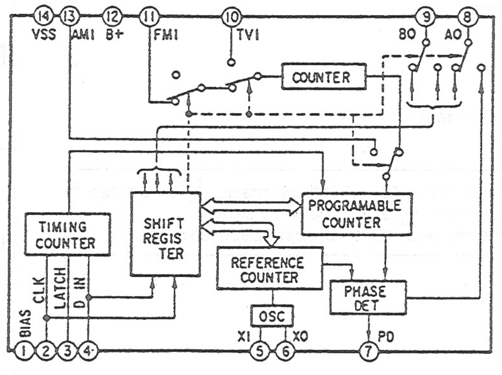


AM OSC
B+ (IF)
AM DET
METER DRIVE
AGC
AM RF AMP
AM MIXING
GND
B+ (RF)
AM IF AMP

IC802 LB1493



IC501 CX7925B



VSS
AMI
B+
FMI
TVI
BO
AO
COUNTER
TIMING COUNTER
SHIFT REGISTER
PROGRAMABLE COUNTER
REFERENCE COUNTER
PHASE DET
OSC
XI
XO
PD
BIAS
CLK
LATCH
D IN

SECTION 4
EXPLODED VIEW

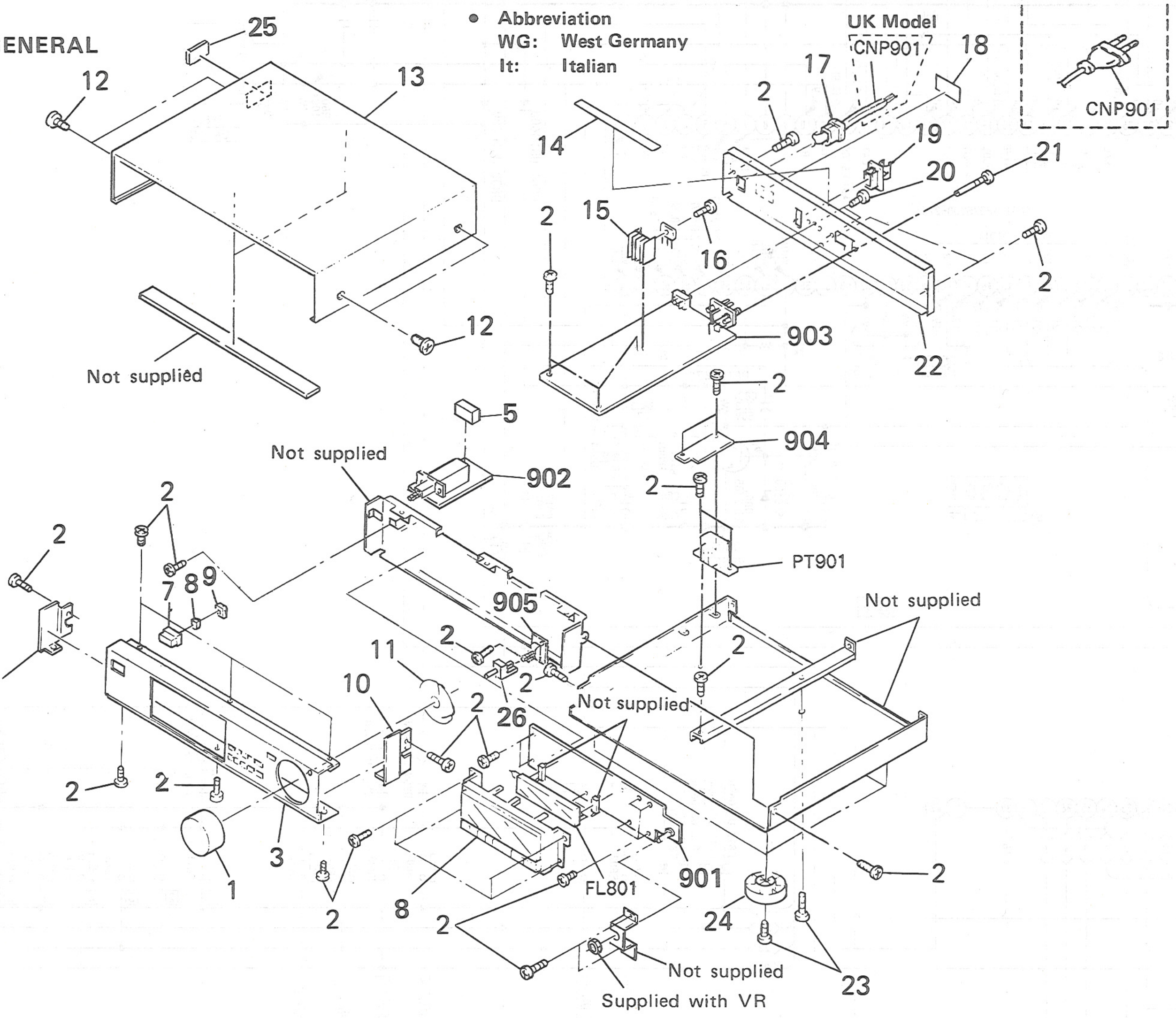
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ Cabinet's Color ↑ Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

(1). GENERAL

- Abbreviation
  WG: West Germany
  It: Italian



25
12
13
14
2
15
16
17
18
19
20
21
22
UK Model
CNP901
WG, IT Model
CNP901
Not supplied
12
903
2
5
904
902
Not supplied
2
PT901
Not supplied
7
8
9
905
6
11
10
26
Not supplied
3
1
8
FL801
901
24
2
Not supplied
Supplied with VR
23

Ref.No	Part No.	Description	Remark
1	4-911-359-01	KNOB	
2	7-682-547-09	SCREW +BV 3X6, S TIGHT	
3	A-4323-067-A	(UK)....PANEL ASSY, FRONT	
3	A-4323-236-A	(WG, IT)....PANEL ASSY, FRONT	
5	*4-908-854-11	CUSHION	
6	*4-911-361-01	PLATE (LEFT), ORNAMENTAL	
7	4-908-046-01	KNOB, SQUARE	
8	A-4323-072-A	ESCUTCHEON ASSY	
9	4-864-307-00	RING	
10	*4-911-362-01	PLATE (RIGHT), ORNAMENTAL	
11	*4-911-372-01	CLOTH, BLIND	
12	4-886-821-01	SCREW, M3 CASE	
13	4-923-420-61	CASE	
14	*4-926-828-11	PLATE, LIGHT INTERCEPTION	
15	*4-921-402-11	HEAT SINK	
16	7-682-548-09	SCREW B 3X8	
17	*3-703-244-00	BUSHING (2104), CORD	
18	4-911-378-01	(IT)....LABEL, MODEL NUMBER	
18	4-911-380-01	(UK)....LABEL, MODEL NUMBER	
18	4-911-382-01	(WG)....LABEL, MODEL NUMBER	
19	*4-908-019-01	HOLDER (A), ANTENNA	
20	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
21	4-887-711-21	SCREW, TERMINAL, CLAW, + BVTP	
22	*4-911-369-11	PANEL, BACK	
23	7-685-872-09	SCREW +BVTT 3X8 (S)	
24	X-3304-944-1	FOOT ASSY	
25	*3-703-079-21	(UK)....LABEL, CAUTION (BACK)	
26	4-923-879-01	(WG, IT)....BUTTON (DIA.4)	
901	*A-4474-663-A	(WG, UK)....MOUNTED PCB, DISPLAY	
901	*A-4474-666-A	(IT)....MOUNTED PCB, DISPLAY	
902	*1-629-883-11	PC BOARD, AC SW	
903	*A-4351-709-A	(UK)....MOUNTED PCB, TUNER	
903	*A-4351-710-A	(WG, IT)....MOUNTED PCB, TUNER	
904	*1-629-881-11	(WG,IT).......PC BOARD, AC CONNECT	
905	*1-631-963-11	(WG, IT)....PC BOARD, ATT SW	
⚠PT901	.1-449-504-11	TRANSFORMER, POWER	
⚠CNP901	.1-574-804-11	(UK)....CORD, POWER	
⚠CNP901	.1-574-805-11	(WG, IT)....CORD, POWER	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA...,
UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description
901	*A-4474-663-A	(WG, UK)....MOUNTED PCB, DISPLAY
901	*A-4474-666-A	(IT)....MOUNTED PCB, DISPLAY
902	*1-629-883-11	PC BOARD, AC SW
903	*A-4351-709-A	(UK)....MOUNTED PCB, TUNER
903	*A-4351-710-A	(WG, IT)....MOUNTED PCB, TUNER
904	*1-629-881-11	PC BOARD, AC CONNECT
905	*1-631-963-11	(WG,IT)....PC BOARD, ATT SW

CAPACITOR

Ref.No	Part No.	Description			
C101	1-101-004-00	CERAMIC	0.01MF		50V
C107	1-161-379-00	CERAMIC	0.01MF	30%	16V
C150	1-161-379-00	CERAMIC	0.01MF	30%	16V
C201	1-161-379-00	CERAMIC	0.01MF	30%	16V
C202	1-161-379-00	CERAMIC	0.01MF	30%	16V
C203	1-161-379-00	CERAMIC	0.01MF	30%	16V
C204	1-161-379-00	CERAMIC	0.01MF	30%	16V
C205	1-161-379-00	CERAMIC	0.01MF	30%	16V
C250	1-161-379-00	CERAMIC	0.01MF	30%	16V
C251	1-161-379-00	CERAMIC	0.01MF	30%	16V
C252	1-110-341-11	MYLAR	330PF	5%	50V
C254	1-124-257-00	ELECT	2.2MF	20%	50V
C255	1-124-257-00	ELECT	2.2MF	20%	50V
C256	1-161-379-00	CERAMIC	0.01MF	30%	16V
C257	1-124-443-00	ELECT	100MF	20%	10V
C258	1-161-379-00	CERAMIC	0.01MF	30%	16V
C259	1-123-321-00	ELECT	220MF	20%	16V
C260	1-161-379-00	CERAMIC	0.01MF	30%	16V
C261	1-161-379-00	CERAMIC	0.01MF	30%	16V
C262	1-161-379-00	CERAMIC	0.01MF	30%	16V
C263	1-161-379-00	CERAMIC	0.01MF	30%	16V
C264	1-124-465-00	ELECT	0.47MF	20%	50V
C265	1-161-379-00	CERAMIC	0.01MF	30%	16V
C266	1-124-438-00	ELECT	1MF	20%	50V
C301	1-136-161-00	FILM	0.047MF	5%	50V
C302	1-124-465-00	ELECT	0.47MF	20%	50V
C303	1-124-438-00	ELECT	1MF	20%	50V
C304	1-124-438-00	ELECT	1MF	20%	50V
C305	1-124-438-00	ELECT	1MF	20%	50V
C306	1-124-465-00	ELECT	0.47MF	20%	50V
C307	1-130-483-00	MYLAR	0.01MF	5%	50V
C308	1-124-465-00	ELECT	0.47MF	20%	50V
C309	1-104-292-91	(WG, IT).... POLYSTYRENE	390PF	5%	50V
C309	1-104-293-11	(UK).... POLYSTYRENE	430PF	5%	50V
C310	1-130-475-00	MYLAR	0.0022MF	5%	50V
C311	1-104-292-91	(WG, IT).... POLYSTYRENE	390PF	5%	50V
C311	1-104-293-11	(UK).... POLYSTYRENE	430PF	5%	50V
C312	1-130-475-00	MYLAR	0.0022MF	5%	50V
C313	1-162-217-31	CERAMIC	56PF	5%	50V
C314	1-162-217-31	CERAMIC	56PF	5%	50V
C315	1-126-618-11	ELECT	33MF	20%	50V
C316	1-124-438-00	ELECT	1MF	20%	50V
C317	1-126-101-11	ELECT	100MF	20%	10V
C318	1-123-321-00	ELECT	220MF	20%	16V
C319	1-130-483-00	MYLAR	0.01MF	5%	50V
C371	1-136-157-00	FILM	0.022MF	5%	50V
C381	1-123-382-00	ELECT	3.3MF	20%	50V
C385	1-162-294-31	(WG, IT).... CERAMIC	0.001MF	10%	50V
C391	1-123-382-00	ELECT	3.3MF	20%	50V
C395	1-162-294-31	(WG, IT).... CERAMIC	0.001MF	10%	50V
C401	1-161-379-00	CERAMIC	0.01MF	30%	16V
C402	1-161-379-00	CERAMIC	0.01MF	30%	16V
C403	1-161-379-00	CERAMIC	0.01MF	30%	16V
C404	1-124-477-11	ELECT	47MF	20%	16V
C405	1-161-379-00	CERAMIC	0.01MF	30%	16V
C406	1-161-379-00	CERAMIC	0.01MF	30%	16V
C407	1-161-379-00	CERAMIC	0.01MF	30%	16V
C408	1-162-294-31	CERAMIC	0.001MF	10%	50V
C409	1-161-379-00	CERAMIC	0.01MF	30%	16V
C410	1-124-902-00	ELECT	0.47MF	20%	50V
C411	1-123-382-00	ELECT	3.3MF	20%	50V
C412	1-124-927-11	ELECT	4.7MF	20%	50V
C413	1-126-101-11	ELECT	100MF	20%	16V
C414	1-124-499-11	ELECT	1MF	20%	50V
C415	1-124-499-11	ELECT	1MF	20%	50V
C416	1-161-379-00	CERAMIC	0.01MF	30%	16V
C417	1-124-499-11	ELECT	1MF	20%	50V
C418	1-161-379-00	CERAMIC	0.01MF	30%	16V
C419	1-161-379-00	CERAMIC	0.01MF	30%	16V
C451	1-161-374-11	CERAMIC	0.0015MF	30%	16V
C452	1-161-374-11	CERAMIC	0.0015MF	30%	16V
C453	1-161-379-00	CERAMIC	0.01MF	30%	16V
C454	1-161-379-00	CERAMIC	0.01MF	30%	16V
C455	1-161-379-00	CERAMIC	0.01MF	30%	16V
C501	1-161-379-00	CERAMIC	0.01MF	30%	16V
C502	1-102-959-00	CERAMIC	22PF	5%	50V
C503	1-102-959-00	CERAMIC	22PF	5%	50V
C504	1-161-379-00	CERAMIC	0.01MF	30%	16V
C505	1-123-875-11	ELECT	10MF	20%	50V
C506	1-161-379-00	CERAMIC	0.01MF	30%	16V
C507	1-124-122-11	ELECT	100MF	20%	35V
C508	1-161-379-00	CERAMIC	0.01MF	30%	16V
C509	1-161-379-00	CERAMIC	0.01MF	30%	16V
C521	1-123-382-00	ELECT	3.3MF	20%	50V
C522	1-123-875-11	ELECT	10MF	20%	50V
C523	1-124-254-00	ELECT	0.68MF	20%	50V
C524	1-124-463-00	ELECT	0.1MF	20%	50V
C551	1-124-438-00	ELECT	1MF	20%	50V
C552	1-123-875-11	ELECT	10MF	20%	50V
C553	1-124-465-00	ELECT	0.47MF	20%	50V
C651	1-124-927-11	ELECT	4.7MF	20%	50V
C701	1-130-789-00	FILM	1MF	5%	100V
C702	1-101-004-00	CERAMIC	0.01MF		50V
C703	1-101-004-00	CERAMIC	0.01MF		50V
C704	1-101-004-00	CERAMIC	0.01MF		50V

Ref.No	Part No.	Description			
C705	1-101-004-00	CERAMIC	0.01MF		50V
C706	1-124-602-00	ELECT	2200MF	20%	35V
C708	1-124-446-11	ELECT	47MF	20%	10V
C709	1-124-446-11	ELECT	47MF	20%	10V
C710	1-126-101-11	ELECT	100MF	20%	16V
C715	1-101-004-00	CERAMIC	0.01MF		50V
C716	1-124-912-11	ELECT	330MF	20%	50V
C717	1-124-910-11	ELECT	47MF	20%	35V
C801	1-125-548-11	DOUBLE LAYERS	0.1F		5.5V
C802	1-131-377-00	TANTALUM	10MF	10%	6.3V
C803	1-161-379-00	CERAMIC	0.01MF	30%	16V
C804	1-126-162-11	ELECT	3.3MF	20%	50V
C805	1-161-379-00	CERAMIC	0.01MF	30%	16V
C806	1-126-233-11	ELECT	22MF	20%	35V
C809	1-126-233-11	ELECT	22MF	20%	35V
C810	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C811	1-161-377-00	CERAMIC	0.0047MF	30%	16V
C812	1-161-379-00	CERAMIC	0.01MF	30%	16V
C901	⚠.1-161-744-00	CERAMIC	0.01MF		400V
C951	⚠.1-161-742-00	(WG, IT).... CERAMIC	0.0022MF	20%	400V
C952	⚠.1-161-742-00	(WG, IT).... CERAMIC	0.0022MF	20%	400V
CF201	1-567-389-11	FILTER, CERAMIC (10.7MHz)			
CF202	1-567-389-11	FILTER, CERAMIC (10.7MHz)			
CF203	1-567-389-11	FILTER, CERAMIC (10.7MHz)			
CF204	1-567-389-11	FILTER, CERAMIC (10.7MHz)			
CF301	1-567-250-11	OSCILLATOR, CERAMIC (18.95kHz)			
CF401	1-527-981-00	FILTER, CERAMIC			
CF402	1-527-826-00	FILTER, CERAMIC			
CN301	*1-535-114-00	(WG, IT)....TERMINAL			
CN701	*1-560-064-00	PIN, CONNECTOR 6P			
CN901	*1-564-321-00	PIN, CONNECTOR 2P			
CN902	*1-564-687-11	PIN, CONNECTOR 3P			
CNP351	*1-562-999-21	JACK, PIN 2P (OUTPUT)			
⚠CNP901	.1-574-804-11	(UK)....CORD, POWER			
⚠CNP901	.1-574-805-11	(WG, IT)....CORD, POWER			
CP801	1-233-124-11	COMPOSITION CIRCUIT BLOCK			
D191	8-719-000-26	(WG, IT)....DIODE US1060M			
D251	8-719-000-26	DIODE US1060M			
D282	8-719-000-26	DIODE US1060M			
D283	8-719-000-26	DIODE US1060M			
D301	8-719-000-26	DIODE US1060M			
D302	8-719-000-26	DIODE US1060M			
D303	8-719-000-26	DIODE US1060M			
D304	8-719-000-26	DIODE US1060M			
D305	8-719-000-26	DIODE US1060M			
D306	8-719-000-26	DIODE US1060M			
D307	8-719-000-26	DIODE US1060M			
D308	8-719-000-26	DIODE US1060M			
D354	8-719-000-26	DIODE US1060M			
D371	8-719-000-26	DIODE US1060M			
D401	8-719-000-26	DIODE US1060M			
D651	8-719-000-26	DIODE US1060M			
D701	8-719-200-77	DIODE 10E2N			
D702	8-719-200-77	DIODE 10E2N			
D703	8-719-200-77	DIODE 10E2N			
D704	8-719-200-77	DIODE 10E2N			
D707	8-719-200-77	DIODE 10E2N			
D708	8-719-102-14	DIODE RD24E-L2			
D709	8-719-933-57	DIODE HZS9B2L			
D710	8-719-000-26	DIODE US1060M			
D801	8-719-000-26	DIODE US1060M			
D802	8-719-000-26	DIODE US1060M			
D803	8-719-933-57	DIODE HZS9B2L			
D804	8-719-000-26	DIODE US1060M			
D805	8-719-000-26	DIODE US1060M			
D806	8-719-000-26	DIODE US1060M			
D807	8-719-000-26	DIODE US1060M			
D808	8-719-000-26	DIODE US1060M			
D809	8-719-000-26	DIODE US1060M			
D811	8-719-000-26	DIODE US1060M			
D812	8-719-000-26	DIODE US1060M			
D813	8-719-000-26	DIODE US1060M			
D814	8-719-000-26	(IT)....DIODE US1060M			
D815	8-719-000-26	DIODE US1060M			
FE150	1-465-219-11	(UK)....FRONT END (FM)			
FE150	1-463-857-11	(WG, IT)....FRONT END (FM)			
FE401	1-235-936-11	ENCAPSULATED COMPONENT (MW)			
FE451	1-236-028-11	ENCAPSULATED COMPONENT (LW)			
FL801	1-519-500-11	INDICATOR TUBE, FLUORESCENT			
IC201	8-759-812-35	IC LA1235			
IC301	8-759-802-57	IC CXA1064S			
IC401	8-759-812-45	IC LA1245			
IC501	8-757-925-20	IC CX7925B			
IC701	8-759-820-09	IC LA5667			
IC801	8-759-143-76	IC UPD75208CW-274			
IC802	8-759-800-95	IC LB1493			
IFT251	1-404-845-11	COIL, DISCRI (PRIMARY)			
IFT252	1-404-846-11	COIL, DISCRI (SECONDARY)			
IFT401	1-404-326-00	TRANSFORMER, IF (AM)			
L251	1-410-780-11	INDUCTOR	27MMH		
L252	1-410-780-11	INDUCTOR	27MMH		
L451	1-410-525-11	INDUCTOR	220UH		
LP381	1-236-541-11	FILTER, LOW PASS			
LP391	1-236-541-11	FILTER, LOW PASS			
PT901⚠	.1-449-504-11	TRANSFORMER, POWER			
Q191	8-729-900-89	(WG,IT)...... TRANSISTOR DTC144ES			
Q201	8-729-216-13	TRANSISTOR 2SK161-GR			
Q202	8-729-266-93	TRANSISTOR 2SC2669			
Q203	8-729-266-93	TRANSISTOR 2SC2669			
Q204	8-729-266-93	TRANSISTOR 2SC2669			
Q205	8-729-266-93	TRANSISTOR 2SC2669			
Q251	8-729-178-54	TRANSISTOR 2SC2785			
Q252	8-729-900-89	TRANSISTOR DTC144ES			
Q253	8-729-201-56	TRANSISTOR 2SK246GR2			
Q254	8-729-178-54	TRANSISTOR 2SC2785			
Q255	8-729-900-89	TRANSISTOR DTC144ES			
Q281	8-729-107-91	TRANSISTOR 2SC3622			
Q282	8-729-900-89	TRANSISTOR DTC144ES			
Q301	8-729-178-54	TRANSISTOR 2SC2785			
Q302	8-729-900-89	TRANSISTOR DTC144ES			
Q371	8-729-201-56	TRANSISTOR 2SK246GR2			
Q372	8-729-201-56	TRANSISTOR 2SK246GR2			
Q373	8-729-900-89	TRANSISTOR DTC144ES			
Q374	8-729-900-89	TRANSISTOR DTC144ES			
Q381	8-729-107-91	TRANSISTOR 2SC3622			
Q391	8-729-107-91	TRANSISTOR 2SC3622			
Q401	8-729-201-56	TRANSISTOR 2SK246GR2			
Q402	8-729-900-89	TRANSISTOR DTC144ES			
Q451	8-729-107-91	TRANSISTOR 2SC3622			
Q452	8-729-900-89	TRANSISTOR DTC144ES			
Q453	8-729-216-13	TRANSISTOR 2SK161-GR			
Q454	8-729-900-89	TRANSISTOR DTC144ES			
Q455	8-729-900-89	TRANSISTOR DTC144ES			
Q456	8-729-900-89	TRANSISTOR DTC144ES			

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref.No	Part No.	Description
Q457	8-729-900-89	TRANSISTOR DTC144ES
Q458	8-729-900-89	TRANSISTOR DTC144ES
Q459	8-729-178-54	TRANSISTOR 2SC2785
Q521	8-729-203-05	TRANSISTOR 2SK30AGR3
Q522	8-729-600-65	TRANSISTOR 2SC634SP-48
Q551	8-729-203-05	TRANSISTOR 2SK30AGR3
Q552	8-729-600-65	TRANSISTOR 2SC634SP-48
Q651	8-729-178-54	TRANSISTOR 2SC2785
Q702	8-729-173-38	TRANSISTOR 2SA733-K
Q751	8-729-900-89	TRANSISTOR DTC144ES
Q752	8-729-178-54	TRANSISTOR 2SC2785
Q753	8-729-173-38	TRANSISTOR 2SA733-K
Q801	8-729-178-54	TRANSISTOR 2SC2785

RESISTOR

Ref.No	Part No.	Description			
R150	1-249-399-11	CARBON	33	5%	1/4W
R151	1-249-437-11	CARBON	47K	5%	1/4W
R152	1-249-433-11	CARBON	22K	5%	1/4W
R191	1-247-802-11	(WG, IT)....			
		CARBON	62	5%	1/4W
R192	1-247-802-11	(WG, IT)....			
		CARBON	62	5%	1/4W
R193	1-249-395-11	(WG, IT)....			
		CARBON	15	5%	1/4W
R194	1-249-404-00	(WG, IT)....			
		CARBON	82	5%	1/4W
R201	1-249-409-11	CARBON	220	5%	1/4W
R202	1-249-412-11	CARBON	390	5%	1/4W
R203	1-249-405-11	CARBON	100	5%	1/4W
R204	1-249-411-11	CARBON	330	5%	1/4W
R205	1-249-411-11	CARBON	330	5%	1/4W
R206	1-249-411-11	CARBON	330	5%	1/4W
R207	1-249-431-11	CARBON	15K	5%	1/4W
R208	1-249-410-11	CARBON	270	5%	1/4W
R209	1-249-411-11	CARBON	330	5%	1/4W
R210	1-249-434-11	CARBON	27K	5%	1/4W
R211	1-249-405-11	CARBON	100	5%	1/4W
R212	1-249-405-11	CARBON	100	5%	1/4W
R213	1-249-411-11	CARBON	330	5%	1/4W
R214	1-249-431-11	CARBON	15K	5%	1/4W
R215	1-249-410-11	CARBON	270	5%	1/4W
R216	1-249-411-11	CARBON	330	5%	1/4W
R217	1-249-434-11	CARBON	27K	5%	1/4W
R250	1-249-411-11	CARBON	330	5%	1/4W
R251	1-249-437-11	CARBON	47K	5%	1/4W
R252	1-249-439-11	CARBON	68K	5%	1/4W
R253	1-249-429-11	CARBON	10K	5%	1/4W
R254	1-249-421-11	CARBON	2.2K	5%	1/4W
R255	1-249-437-11	CARBON	47K	5%	1/4W
R256	1-247-903-00	CARBON	1M	5%	1/4W
R257	1-249-434-11	CARBON	27K	5%	1/4W
R258	1-249-432-11	CARBON	18K	5%	1/4W
R259	1-249-424-11	CARBON	3.9K	5%	1/4W
R260	1-249-422-11	CARBON	2.7K	5%	1/4W
R261	1-249-437-11	CARBON	47K	5%	1/4W
R262	1-249-433-11	CARBON	22K	5%	1/4W
R263	1-249-406-11	CARBON	120	5%	1/4W
R264	1-249-438-11	CARBON	56K	5%	1/4W
R265	1-249-437-11	CARBON	47K	5%	1/4W
R266	1-247-895-00	CARBON	470K	5%	1/4W
R267	1-249-409-11	CARBON	220	5%	1/4W
R268	1-249-393-11	CARBON	10	5%	1/4W
R269	1-249-429-11	CARBON	10K	5%	1/4W
R281	1-249-441-11	CARBON	100K	5%	1/4W
R301	1-247-848-11	CARBON	5.1K	5%	1/4W
R302	1-249-431-11	CARBON	15K	5%	1/4W
R304	1-249-429-11	CARBON	10K	5%	1/4W
R305	1-249-434-11	(WG, IT)....			
		CARBON	27K	5%	1/4W
R305	1-249-435-11	(UK)....CARBON	33K	5%	1/4W
R306	1-247-883-00	(WG, IT)....			
		CARBON	150K	5%	1/4W
R306	1-247-881-00	(UK)....CARBON	120K	5%	1/4W
R307	1-249-399-11	CARBON	33	5%	1/4W
R308	1-247-883-00	(WG, IT)....			
		CARBON	150K	5%	1/4W
R308	1-247-881-00	(UK)....CARBON	120K	5%	1/4W
R309	1-249-399-11	CARBON	33	5%	1/4W
R310	1-249-441-11	CARBON	100K	5%	1/4W
R311	1-249-441-11	CARBON	100K	5%	1/4W
R312	1-249-405-11	CARBON	100	5%	1/4W
R313	1-249-437-11	CARBON	47K	5%	1/4W
R371	1-249-437-11	CARBON	47K	5%	1/4W
R372	1-249-437-11	CARBON	47K	5%	1/4W
R373	1-247-903-00	CARBON	1M	5%	1/4W
R374	1-247-903-00	CARBON	1M	5%	1/4W
R375	1-249-429-11	CARBON	10K	5%	1/4W
R381	1-249-419-11	CARBON	1.5K	5%	1/4W
R382	1-249-427-11	CARBON	6.8K	5%	1/4W
R384	1-249-417-11	CARBON	1K	5%	1/4W
R391	1-249-419-11	CARBON	1.5K	5%	1/4W
R392	1-249-427-11	CARBON	6.8K	5%	1/4W
R394	1-249-417-11	CARBON	1K	5%	1/4W
R401	1-249-437-11	CARBON	47K	5%	1/4W
R402	1-249-419-11	CARBON	1.5K	5%	1/4W
R403	1-249-409-11	CARBON	220	5%	1/4W
R404	1-249-413-11	CARBON	470	5%	1/4W
R405	1-249-429-11	CARBON	10K	5%	1/4W
R406	1-249-430-11	CARBON	12K	5%	1/4W
R407	1-249-429-11	CARBON	10K	5%	1/4W
R408	1-247-903-00	CARBON	1M	5%	1/4W
R409	1-249-429-11	CARBON	10K	5%	1/4W
R410	1-249-409-11	CARBON	220	5%	1/4W
R411	1-249-404-00	CARBON	82	5%	1/4W
R412	1-249-407-11	CARBON	150	5%	1/4W
R413	1-249-424-11	CARBON	3.9K	5%	1/4W
R414	1-249-429-11	CARBON	10K	5%	1/4W
R415	1-249-429-11	CARBON	10K	5%	1/4W
R416	1-249-417-11	CARBON	1K	5%	1/4W
R419	1-249-422-11	CARBON	2.7K	5%	1/4W
R451	1-249-437-11	CARBON	47K	5%	1/4W
R452	1-249-433-11	CARBON	22K	5%	1/4W
R453	1-247-903-00	CARBON	1M	5%	1/4W
R454	1-249-417-11	CARBON	1K	5%	1/4W
R455	1-249-429-11	CARBON	10K	5%	1/4W
R456	1-249-441-11	CARBON	100K	5%	1/4W
R457	1-249-417-11	CARBON	1K	5%	1/4W
R458	1-249-441-11	CARBON	100K	5%	1/4W
R459	1-249-423-11	CARBON	3.3K	5%	1/4W
R501	1-249-429-11	CARBON	10K	5%	1/4W
R502	1-249-429-11	CARBON	10K	5%	1/4W
R503	1-249-429-11	CARBON	10K	5%	1/4W
R504	1-249-400-11	CARBON	39	5%	1/4W
R505	1-249-408-11	CARBON	180	5%	1/4W
R521	1-249-414-11	CARBON	560	5%	1/4W
R522	1-249-414-11	CARBON	560	5%	1/4W
R523	1-249-418-11	CARBON	1.2K	5%	1/4W
R524	1-249-411-11	CARBON	330	5%	1/4W
R525	1-249-420-11	CARBON	1.8K	5%	1/4W
R526	1-249-427-11	CARBON	6.8K	5%	1/4W
R528	1-249-425-11	CARBON	4.7K	5%	1/4W
R529	1-249-425-11	CARBON	4.7K	5%	1/4W

Ref.No	Part No.	Description				
R530	1-249-415-11	CARBON	680	5%	1/4W	
R551	1-249-429-11	CARBON	10K	5%	1/4W	
R552	1-249-414-11	CARBON	560	5%	1/4W	
R553	1-249-418-11	CARBON	1.2K	5%	1/4W	
R554	1-249-411-11	CARBON	330	5%	1/4W	
R555	1-249-437-11	CARBON	47K	5%	1/4W	
R556	1-249-427-11	CARBON	6.8K	5%	1/4W	
R557	1-249-425-11	CARBON	4.7K	5%	1/4W	
R651	1-249-404-00	CARBON	82	5%	1/4W	
R652	1-249-429-11	CARBON	10K	5%	1/4W	
R701 ⚠.	1-212-865-00	FUSIBLE	22	5%	1/4W	F
R703	1-249-437-11	CARBON	47K	5%	1/4W	
R706 ⚠.	1-247-751-11	CARBON	820	5%	1/2W	F
R707	1-249-437-11	CARBON	47K	5%	1/4W	
R708	1-249-433-11	CARBON	22K	5%	1/4W	
R709	1-249-429-11	CARBON	10K	5%	1/4W	
R710	1-249-433-11	CARBON	22K	5%	1/4W	
R751	1-249-423-11	CARBON	3.3K	5%	1/4W	
R752	1-249-433-11	CARBON	22K	5%	1/4W	
R753	1-249-433-11	CARBON	22K	5%	1/4W	
R801	1-249-441-11	CARBON	100K	5%	1/4W	
R802	1-249-441-11	CARBON	100K	5%	1/4W	
R803	1-249-437-11	CARBON	47K	5%	1/4W	
R804	1-249-437-11	CARBON	47K	5%	1/4W	
R805	1-249-437-11	CARBON	47K	5%	1/4W	
R807	1-249-439-11	CARBON	68K	5%	1/4W	
R808	1-249-401-11	CARBON	47	5%	1/4W	
R809	1-249-417-11	CARBON	1K	5%	1/4W	
R810	1-247-895-00	CARBON	470K	5%	1/4W	
R811	1-249-433-11	CARBON	22K	5%	1/4W	
R812	1-249-441-11	CARBON	100K	5%	1/4W	
R813	1-249-441-11	CARBON	100K	5%	1/4W	
R814	1-249-441-11	CARBON	100K	5%	1/4W	
R815	1-249-441-11	CARBON	100K	5%	1/4W	
R816	1-249-441-11	CARBON	100K	5%	1/4W	
R817	1-249-441-11	CARBON	100K	5%	1/4W	
R818	1-249-429-11	CARBON	10K	5%	1/4W	
R819	1-249-426-11	CARBON	5.6K	5%	1/4W	
R824	1-249-436-11	CARBON	39K	5%	1/4W	
R825	1-249-436-11	CARBON	39K	5%	1/4W	
R826	1-249-434-11	CARBON	27K	5%	1/4W	
R827	1-249-431-11	CARBON	15K	5%	1/4W	
R828	1-249-431-11	CARBON	15K	5%	1/4W	
R830	1-249-441-11	CARBON	100K	5%	1/4W	
R850	1-249-441-11	CARBON	100K	5%	1/4W	
R851	1-249-441-11	CARBON	100K	5%	1/4W	
R852	1-249-441-11	CARBON	100K	5%	1/4W	
R853	1-249-441-11	CARBON	100K	5%	1/4W	
R854	1-249-441-11	CARBON	100K	5%	1/4W	
RV251	1-237-461-21	RES, ADJ, CARBON 50K				
RV252	1-237-459-21	RES, ADJ, CARBON 10K				
RV253	1-237-463-21	RES, ADJ, CARBON 200K				
RV301	1-237-464-11	RES, ADJ, CARBON 500K				
RV302	1-237-464-11	RES, ADJ, CARBON 500K				
RV303	1-237-460-21	RES, ADJ, CARBON 20K				
RV402	1-237-463-21	RES, ADJ, CARBON 200K				
RV801	1-466-067-11	ENCORDER, ROTALY (TUNING)				
RY191	1-515-614-11	(WG, IT)....RELAY				
RY651	1-515-614-11	RELAY				
S802	1-554-303-21	SWITCH, KEY BOARD (CAL TONE)				
S803	1-554-303-21	SWITCH, KEY BOARD (TUNE MODE)				
S804	1-554-303-21	SWITCH, KEY BOARD (MUTING)				
S805	1-554-303-21	SWITCH, KEY BOARD (HI-BLEND)				
S806	1-554-303-21	SWITCH, KEY BOARD (FM MODE)				
S807	1-554-303-21	SWITCH, KEY BOARD (FM/MW/LW)				
S808	1-554-303-21	SWITCH, KEY BOARD (MEMORY)				
S809	1-554-303-21	SWITCH, KEY BOARD (SHIFT)				
S810	1-554-303-21	SWITCH, KEY BOARDP (PRESET/TUNIG)				
S811	1-554-303-21	SWITCH, KEY BOARD (1)				
S812	1-554-303-21	SWITCH, KEY BOARD (2)				
S813	1-554-303-21	SWITCH, KEY BOARD (3)				
S814	1-554-303-21	SWITCH, KEY BOARD (4)				
S815	1-554-303-21	SWITCH, KEY BOARD (5)				
S816	1-554-303-21	SWITCH, KEY BOARD (6)				
S817	1-554-303-21	SWITCH, KEY BOARD (7)				
S818	1-554-303-21	SWITCH, KEY BOARD (8)				
S819	1-554-303-21	SWITCH, KEY BOARD (9)				
S820	1-554-303-21	SWITCH, KEY BOARD (0)				
S891	1-572-049-11	(WG, IT)....SWITCH, PUSH (1 KEY) (ANT ATT)				
S901 ⚠.	1-554-920-11	SWITCH, PUSH (AC POWER)(1 KEY) (POWER)				
TH201	1-807-796-11	THERMISTOR (10k)				
TM101	1-537-155-11	TERMINAL BOARD (ANT)				
TP251	*1-560-060-00	PIN, CONNECTOR 2P (NULL)				
TP801	*1-560-060-00	PIN, CONNECTOR 2P (BACK UP)				
XT501	1-567-826-21	VIBRATOR, CRYSTAL (7.2MHz)				
XT801	1-577-101-11	VIBRATOR, CERAMIC (4.19MHz)				

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ACCESSORY & PACKING MATERIAL

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Part No.	Description
1-417-090-00	TRANSFORMER, ANTENNA MATCHING
1-501-224-00	ANTENNA, FEEDER
1-501-349-11	ANTENNA, LOOP
1-558-543-11	CORD, CONNECTION
3-786-265-11	(UK)....MANUAL, INSTRUCTION
3-786-265-41	(WG, IT)....MANUAL, INSTRUCTION
*4-915-426-01	CUSHION
*4-923-448-11	INDIVIDUAL CARTON

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

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Audio Group

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